

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/052256

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J61/44 C09K11/59

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01J C09K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 284 156 B1 (UEHARA SUSUMU ET AL) 4 September 2001 (2001-09-04) claims 1-9	1-9
P,A	EP 1 367 655 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 3 December 2003 (2003-12-03) the whole document	1-9
A	& WO 03/021691 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD; MAEDA, TOSHIHIDE; OSHIO, SHOZ) 13 March 2003 (2003-03-13) the whole document	1-9
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

1 March 2005

Date of mailing of the international search report

08/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lehnert, A

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/052256

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/103748 A (KONINKLIJKE PHILIPS ELECTRONICS N.V.; PHILIPS CORPORATE INTELLECTUAL PR) 27 December 2002 (2002-12-27) cited in the application page 4, line 18 - line 22	
A	EP 1 187 174 A (PHILIPS CORPORATE INTELLECTUAL PROPERTY GMBH; KONINKLIJKE PHILIPS ELEC) 13 March 2002 (2002-03-13) the whole document	1-9
A	GB 2 115 977 A (* GENERAL ELECTRIC COMPANY) 14 September 1983 (1983-09-14) claims 1,4,6	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/052256

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6284156	B1	04-09-2001	JP 2000212556 A	02-08-2000
EP 1367655	A	03-12-2003	EP 1367655 A1	03-12-2003
			US 2004104391 A1	03-06-2004
			WO 03021691 A1	13-03-2003
			595012 B	21-06-2004
WO 03021691	A	13-03-2003	EP 1367655 A1	03-12-2003
			WO 03021691 A1	13-03-2003
			595012 B	21-06-2004
			US 2004104391 A1	03-06-2004
WO 02103748	A	27-12-2002	DE 10129464 A1	02-01-2003
			EP 1428241 A1	16-06-2004
			WO 02103748 A1	27-12-2002
			JP 2004531033 T	07-10-2004
			US 2004169456 A1	02-09-2004
EP 1187174	A	13-03-2002	DE 10044562 A1	21-03-2002
			CN 1342994 A	03-04-2002
			EP 1187174 A2	13-03-2002
			JP 2002124211 A	26-04-2002
			US 2002047525 A1	25-04-2002
GB 2115977	A	14-09-1983	DE 3306375 A1	08-09-1983
			FR 2522441 A1	02-09-1983
			JP 58154161 A	13-09-1983